We Claim:

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1. A method of forming a molded article from a solid raw material, the method comprising:

feeding a solid pressure-fusable raw material into an injection zone from a material hopper;

pressing the raw material from the injection zone into a compression chamber having a shaped volume using a reciprocating press piston; and

increasing the pressure on the raw material in the compression chamber until the pressure-fusable raw material forms a solid filling the shaped volume of the compression chamber.

- 2. The method of claim 1, further comprising feeding the solid pressurefusable raw material from a hopper into the injection zone.
- 3. The method of claim 2, wherein feeding the solid pressure-fusable raw material from the hopper into the injection zone includes using a plunger to index the raw material through the hopper.
- 4. The method of claim 1, wherein the compression chamber in formed by a

 20 placing a removable mold within a mold chamber, wherein a wall of the mold chamber
 forms one boundary of the compression chamber and a cavity within the removable mold
 defines the remaining boundary of the compression chamber.

- 5. The method of claim 1, wherein the removable mold is secured adjacent the injection zone by a lock mechanism.
- 5 6. The method of claim 4, wherein the lock mechanism includes a cam structure and a lock handle for manually locking the compression chamber in place.
 - 7. An isostatic press comprising:

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an injection zone configured to receive a pressure-fusable raw material;

a compression chamber configured to receive pressure-fusable raw material from the injection zone and configured to receive isostatic pressure applied to raw material therein to form a solid object of the pressure-fusable raw material shaped the same as the compression chamber; and

a pressing piston positioned to travel through the injection zone for transporting the pressure-fusable raw material from the injection zone into a compression chamber and configured to apply isostatic pressure to the compression chamber.

- 8. The isostatic press of claim 7, further comprising:
- a mold chamber configured to receive releasable molds;
- at least one releasable mold; and
 - a lock mechanism configured to selectively lock the at least one releasable mold in a position adjacent the injection zone.

- 9. The isostatic press of claim 8, wherein the mold chamber includes a mold wall configured to form a first boundary of the compression chamber.
- The isostatic press of claim 9, wherein the at least one releasable mold includes a mold cavity configured to form a second boundary of the compression chamber.
- 11. The isostatic press of claim 8, wherein the mold chamber includes a mold wall configured to form a first boundary of the compression chamber and the at least one releasable mold includes a mold cavity configured to form a second boundary of the compression chamber.
 - 12. The isostatic press of claim 7, further comprising:
- a pressure-fusable raw material hopper configured to receive pressure-fusable raw material; and
 - a press handle operatively coupled with the pressing piston to effect reciprocal motion of the pressing piston by manipulation of the press handle.
- 20 13. The isostatic press of claim 12, further comprising a plunger configured to index pressure-fusable raw material down through the hopper.